

Specification of Competency Standards for the Logistics Industry

Unit of Competency

1. Title	Formulate warehouse automation solutions
2. Code	LOCUPD604A
3. Range	This unit of competency is applicable to logistics service providers. Practitioners should be capable of formulating warehouse automation solutions so as to enhance the efficiency of the warehouse and business operations.
4. Level	6
5. Credit	6 (for reference only)
6. Competency	<p style="text-align: center;"><u>Performance Requirements:</u></p> <p>6.1 Knowledge of warehouse management and warehouse automation solutions</p> <ul style="list-style-type: none"> • Understand the principle of warehouse management • Understand the concepts of warehouse automation • Understand company policy, procedures, and business strategies • Understand the operations and workflows of terminal, warehouse, logistics centre and related industries • Understand the knowledge of safety management <p>6.2.1 Review existing warehouse operations and practices</p> <ul style="list-style-type: none"> • Review current warehouse operations and practices • Identify the current trends of warehouse automation in the logistics industry • Analyse the potential impacts of warehouse automation on organisation <p>6.2.2 Formulate warehouse automation solutions</p> <ul style="list-style-type: none"> • Analyse the importance of warehouse automation on the business • Identify and analyse the feasibility of adopting warehouse automation solutions • Analyse how warehouse automation can enhance the efficiency and effectiveness of warehouse operations with reference to organisation goals, objectives and policies • Use appropriate tools to complete the planning and designing of warehouse automation solutions • Assess, select and adopt warehouse automation solutions to support warehouse operations, business strategies and policies, such as <ul style="list-style-type: none"> ○ Data capture devices (e.g. RFID readers, RF guns, voice picking, etc.) ○ Goods handling devices (e.g. Automatic order picking systems, palletisers and robots, etc.) ○ Automated storing devices (e.g. Carousels, automated storage and retrieval systems, etc.) <p>6.3 Assess and review warehouse automation solutions</p> <ul style="list-style-type: none"> • Review effectiveness of the warehouse automation solutions • Conduct cost-benefit analysis and evaluate the key cost–benefit indicators (e.g. NPV, PVB, PVC, BCR, etc.), to determine if the solutions are sound investments and feasible to implement • Provide effective recommendation for future improvement
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable of analysing, and assessing the feasibility and advantages of adopting warehouse automation solutions • Capable of selecting automation devices to support warehouse operations • Capable of formulating warehouse automation solutions • Capable of assessing and reviewing warehouse automation solutions
8. Remarks	